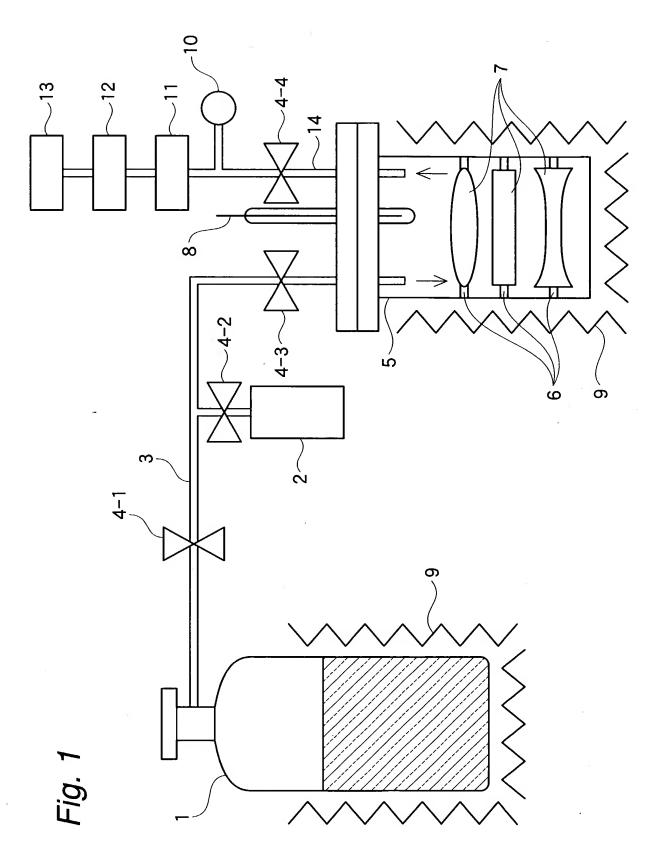
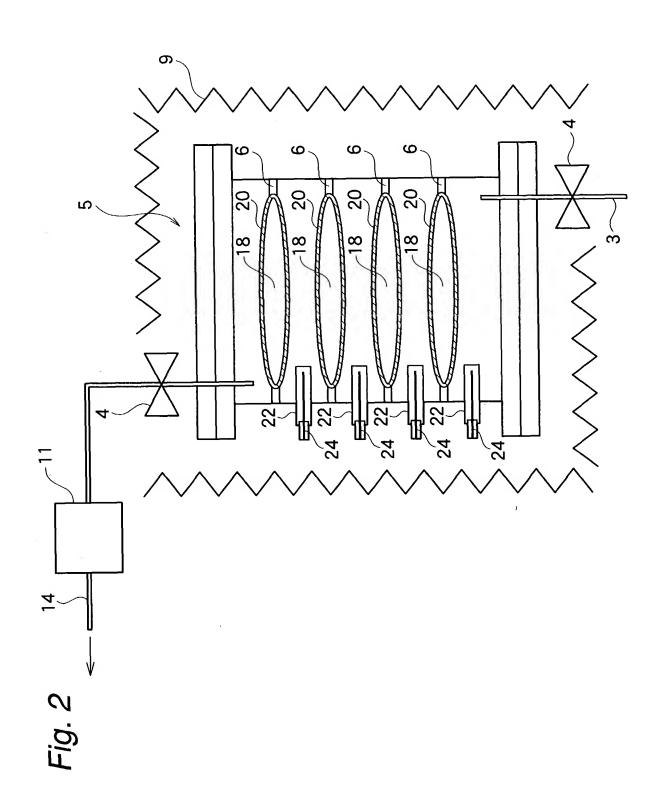
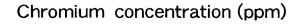
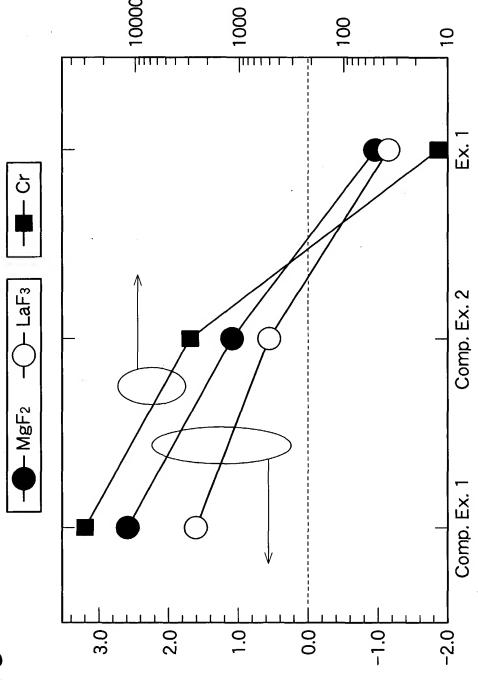
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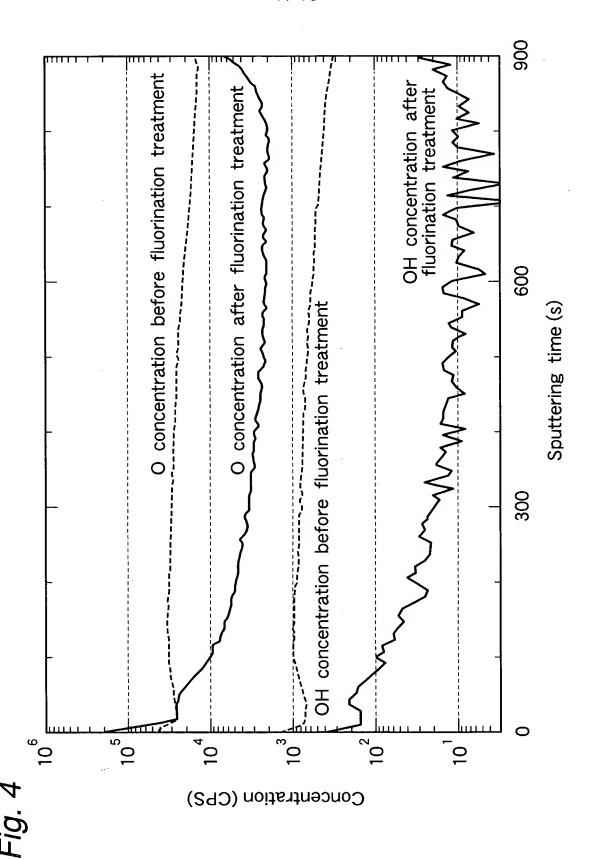
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(Optical loss after fluorination treatment) – (Optical loss before fluorination treatment) (%)



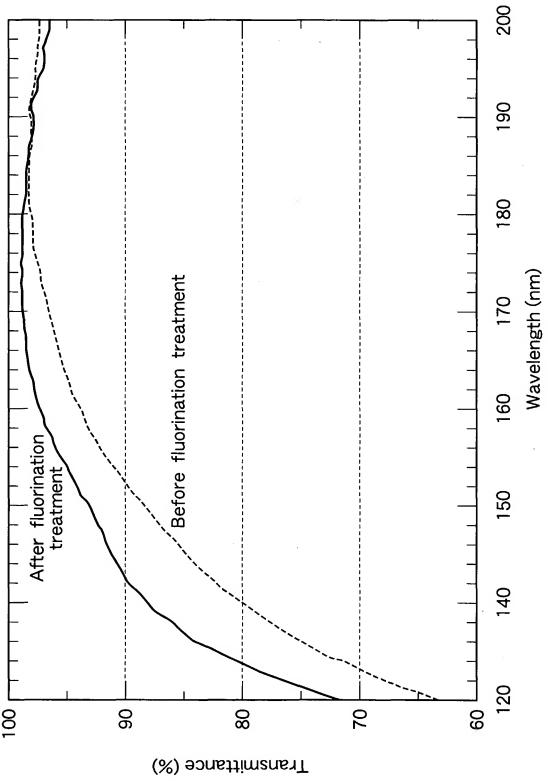
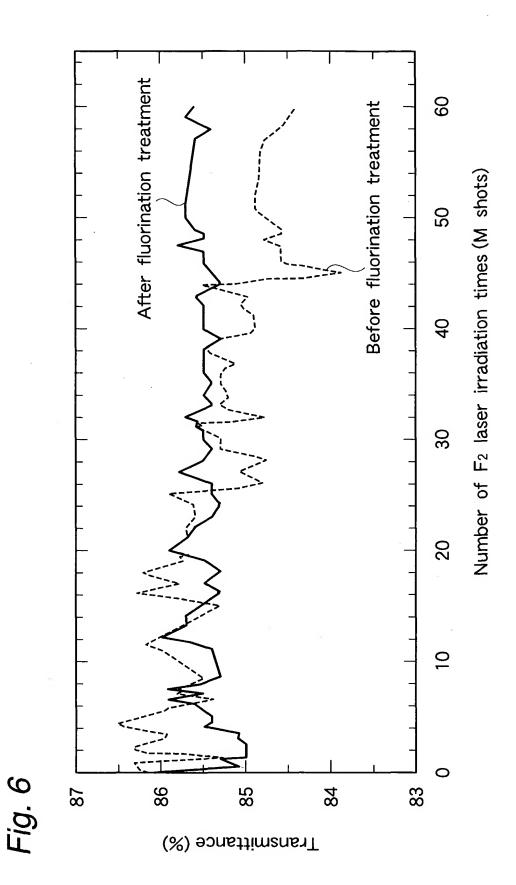


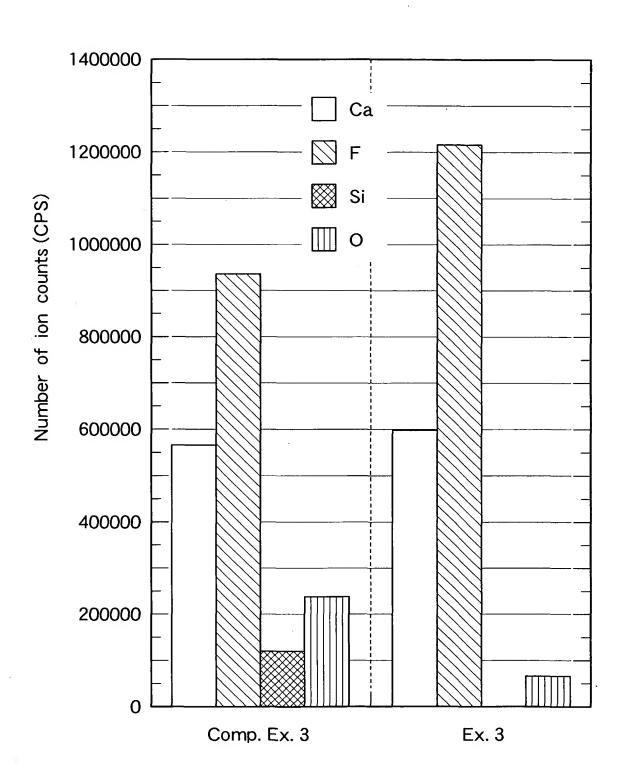
Fig. !

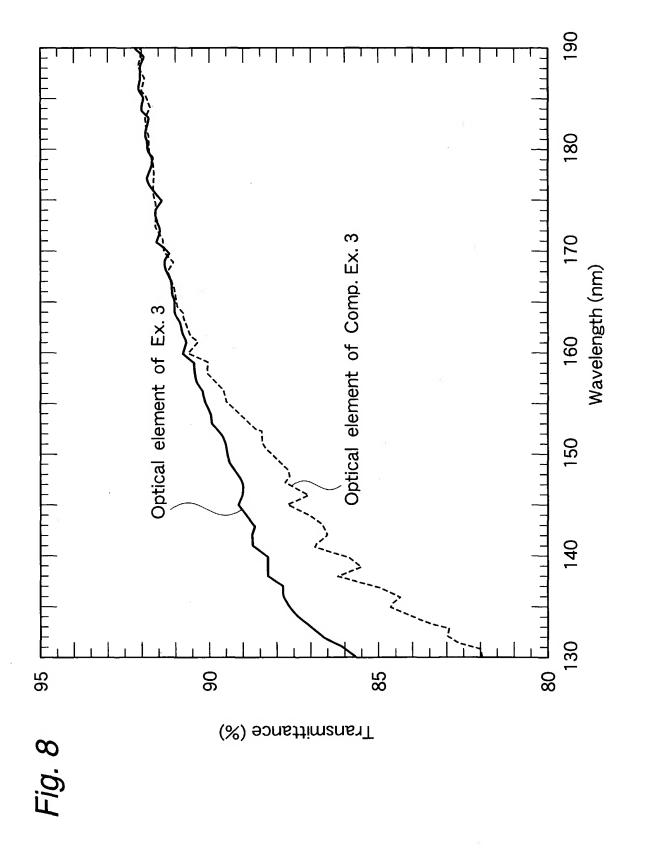


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 $\{|\cdot|,\cdot|\cdot\rangle,$

Fig. 7





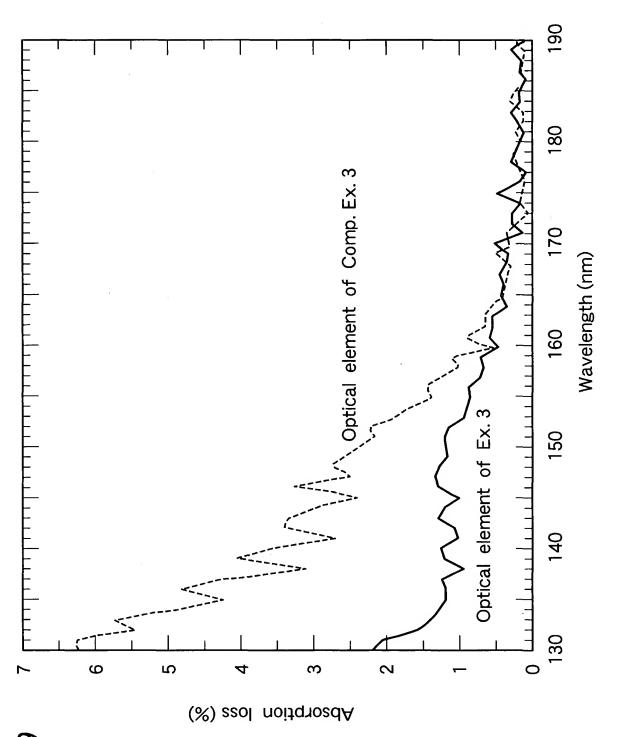
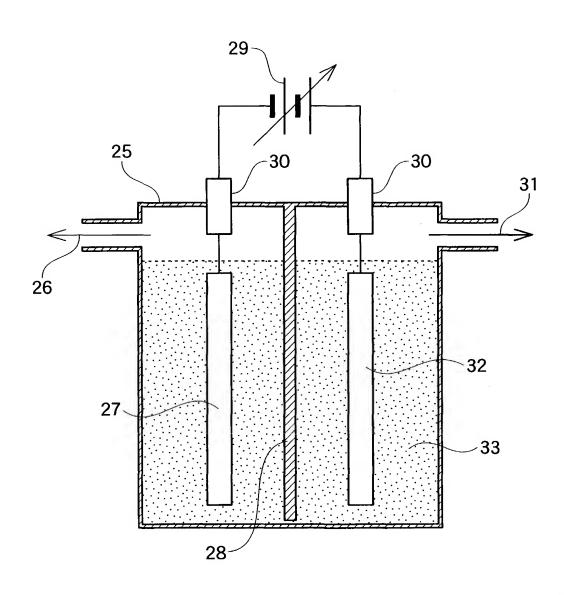


Fig. 9

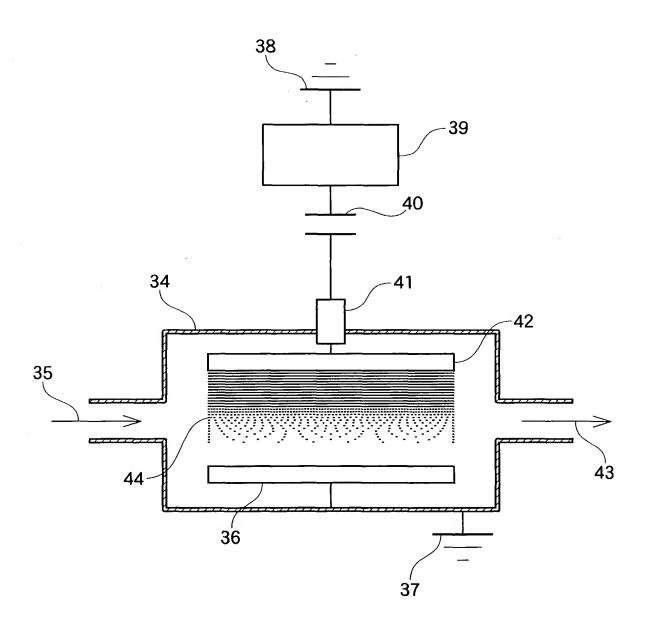
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Fig. 10



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Fig. 11



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Fig. 12

Fluorination treatment (densification)

Present invention

300nm

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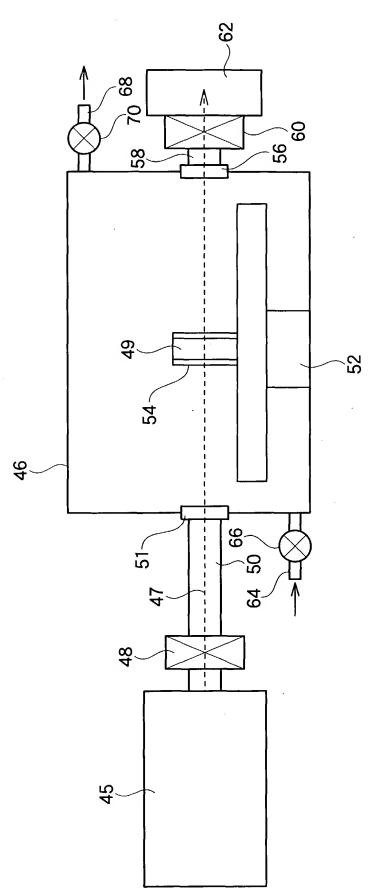


Fig. 13

Fig. 14

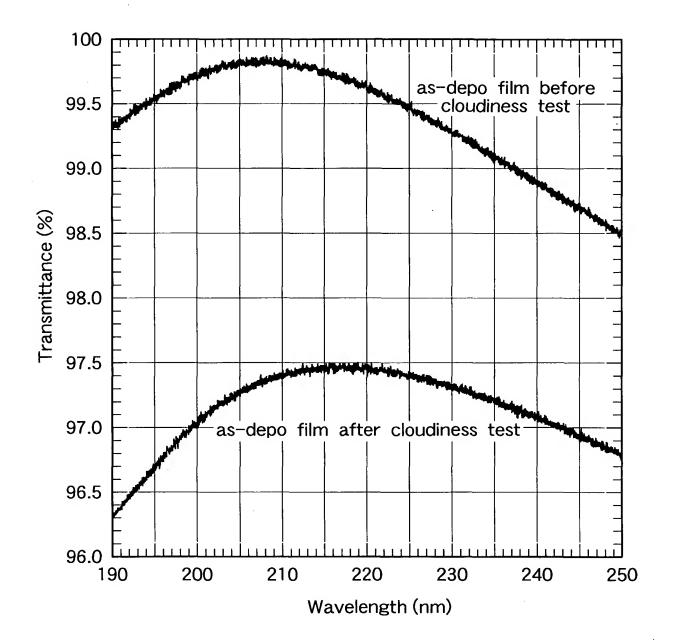


Fig. 15

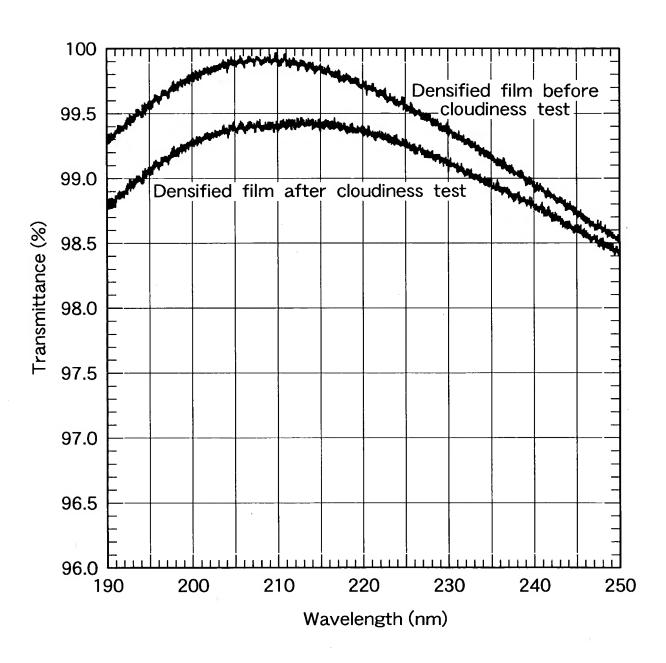


Fig. 16

